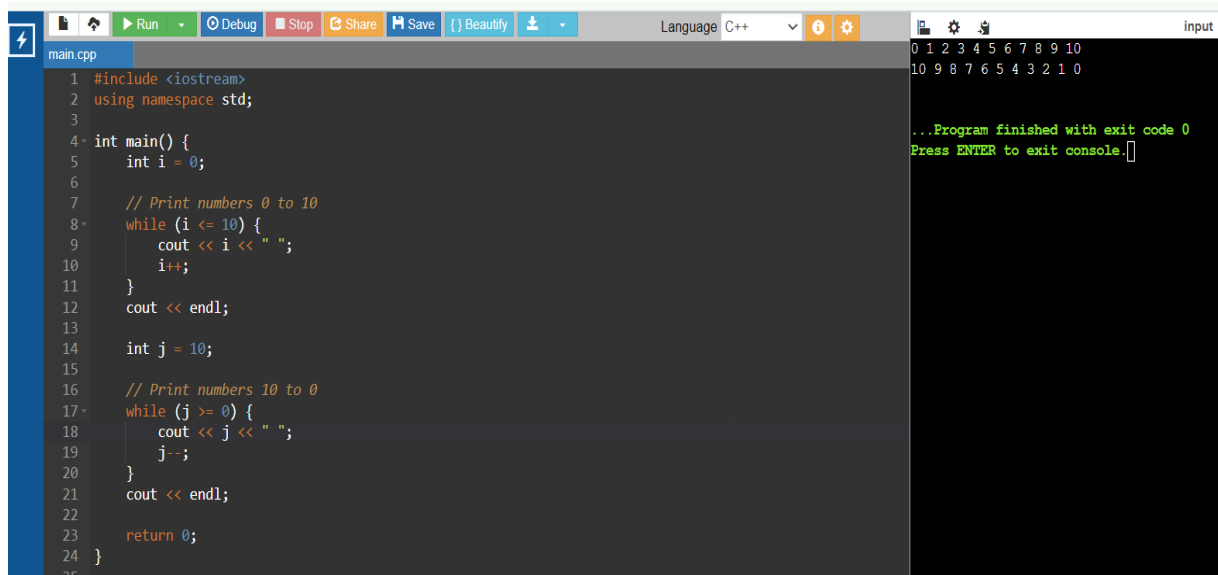


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1. Print Numbers Using Two While Loops

Write a program to print numbers from 0 to 10 and 10 to 0 using two while loops.



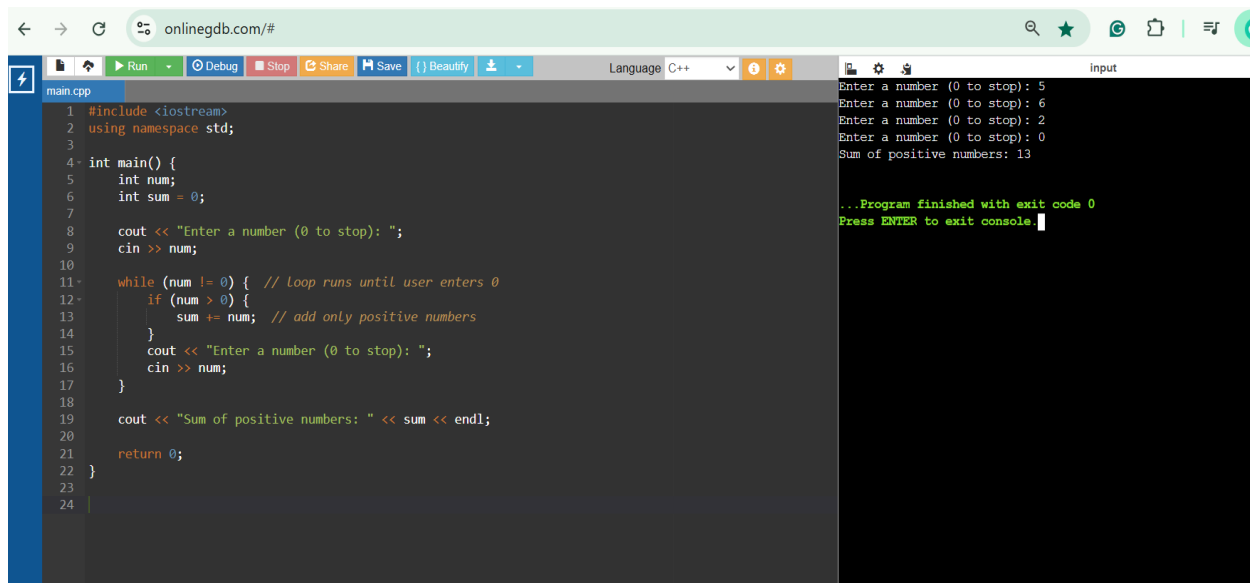
```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     int i = 0;
6
7     // Print numbers 0 to 10
8     while (i <= 10) {
9         cout << i << " ";
10        i++;
11    }
12    cout << endl;
13
14    int j = 10;
15
16    // Print numbers 10 to 0
17    while (j >= 0) {
18        cout << j << " ";
19        j--;
20    }
21    cout << endl;
22
23    return 0;
24 }
```

0 1 2 3 4 5 6 7 8 9 10
10 9 8 7 6 5 4 3 2 1 0

...Program finished with exit code 0
Press ENTER to exit console.

2. Sum of Positive Integers Until 0

Write a program that prompts the user to input a series of integers until the user stops entering 0 using a while loop. Calculate and print the sum of all the positive integers entered.



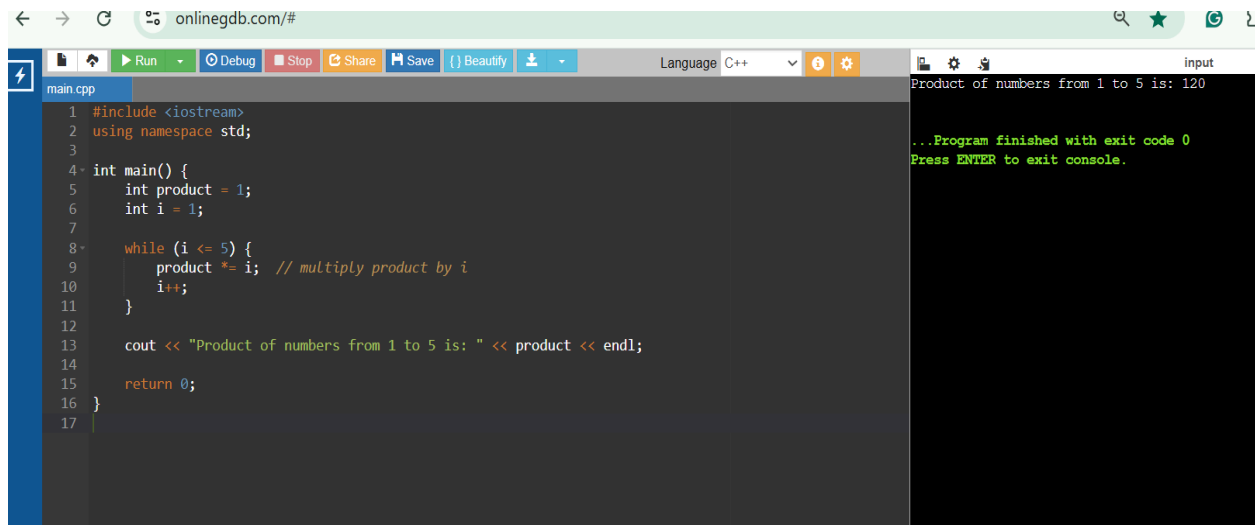
```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     int num;
6     int sum = 0;
7
8     cout << "Enter a number (0 to stop): ";
9     cin >> num;
10
11    while (num != 0) { // loop runs until user enters 0
12        if (num > 0) {
13            sum += num; // add only positive numbers
14        }
15        cout << "Enter a number (0 to stop): ";
16        cin >> num;
17    }
18
19    cout << "Sum of positive numbers: " << sum << endl;
20
21    return 0;
22 }
```

Enter a number (0 to stop): 5
Enter a number (0 to stop): 6
Enter a number (0 to stop): 2
Enter a number (0 to stop): 0
Sum of positive numbers: 13

...Program finished with exit code 0
Press ENTER to exit console.

3. Product of Numbers from 1 to 5

Write a program that calculates the product of numbers from 1 to 5 using a while loop.



```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     int product = 1;
6     int i = 1;
7
8     while (i <= 5) {
9         product *= i; // multiply product by i
10        i++;
11    }
12
13    cout << "Product of numbers from 1 to 5 is: " << product << endl;
14
15    return 0;
16 }
17
```

Product of numbers from 1 to 5 is: 120

...Program finished with exit code 0
Press ENTER to exit console.